

From: Bercik, Lisa M. [lisa.bercik@aptim.com]
Sent: Wednesday, May 6, 2020 5:13 PM
To: Mccray, Sean-Ryan CTR (USA) [sean-ryan.mccray.ctr@navy.mil]; Liscio, Matthew P CIV USN NAVSEA DET RASO VA (USA) [matthew.liscio@navy.mil]
CC: Schul, Raymond [raymond.schul@aptim.com]; Greene, Rick [Rick.Greene@aptim.com]; Howard, Leslie Ann CIV USN BRAC PMO SAN CA (USA) [leslie.howard@navy.mil]
Subject: [Non-DoD Source] RE: Parcel F Finger Piers Path Forward
Attachments: Parcel F Status Update Agenda_2020_05_07.docx; HPNS_Parcel F Survey Summary_050620.xlsx

Agenda and updated summary are attached for tomorrow's call.

Thanks,
Lisa

Lisa Bercik, PE, QSD, QSP
Project Manager

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-----Original Appointment-----

From: Bercik, Lisa M.
Sent: Wednesday, May 6, 2020 9:17 AM
To: Bercik, Lisa M.; Mccray, Sean-Ryan CTR (USA); matthew.liscio@navy.mil
Cc: Schul, Raymond; Greene, Rick; Howard, Leslie Ann CIV USN BRAC PMO SAN CA (USA)
Subject: Parcel F Finger Piers Path Forward
When: Thursday, May 7, 2020 8:30 AM-9:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: Microsoft Teams Meeting

Discuss data collected to date and path forward for the Finger Piers.

(b) (4)

[REDACTED]

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Site Location	Site Location Detail	SU	100% Gamma Walkover Survey Complete?	Locations that Exceeded Gamma Scan IL	Locations that Exceeded Gamma Static IL	225% α/β Scan Complete?	94 Systematic α/β Static Complete?	Total α/β Scan Exceedances (Includes MH Survey)	Total α/β Static Exceedances (Systematic and Scan Follow-up Statics to Date)	SU Scoping Survey								MH/ Grate Survey								Concrete Samples		Notes	
										Alpha Scan Exceed RG (>100 dpm)	Alpha Scan Exceed IL (>50 dpm)	Alpha Scan Exceed MDC (>200 dpm)	Beta Scan Exceed RG (>1,000 dpm)	Beta Scan Exceed IL (>500 dpm)	Beta Scan Exceed MDC (>325 dpm)	Alpha Static Exceed (>100 dpm)	Beta Static Exceed (>1,000 dpm)	Alpha Scan Exceed RG (>100 dpm)	Alpha Scan Exceed IL (>50 dpm)	Alpha Scan Exceed MDC (>200 dpm)	Beta Scan Exceed RG (>1,000 dpm)	Beta Scan Exceed IL (>500 dpm)	Beta Scan Exceed MDC (>325 dpm)	Alpha Static Exceed (>100 dpm)	Beta Static Exceed (>1000 dpm)	Samples Collected (#)?	Samples > RGs?		
Frage Per	Frage Per 1, Be this 23-28	SU4	Yes	16	0	Yes	Yes	2229	0	2226	7258	77	0	2	308	0	0	3	8	0	0	0	2	0	0	0	Y (1)	N	
	Frage Per 2, Be this 30-35	SU5	Yes	37	0	Yes	Yes	1286	0	1272	5355	29	0	9	560	0	0	14	32	1	0	0	0	0	0	Y (2)	N		
	Frage Per 3, Be this 37-42	SU6	Yes	39	0	Yes	Yes	349	0	338	1943	8	0	2	324	0	0	11	24	0	0	5	5	0	0	Y (2)	N		

Parcel F Fingers Piers
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Agenda

1. Review Work Plan procedures

- a. Survey design based on conceptual site model (CSM)
- b. Perform gamma survey over 100% of survey unit (SU)
- c. Perform alpha/beta survey over 25% of SU, include locations > investigation level (IL) from gamma survey
- d. Perform follow up alpha/beta 2-minute statics at locations > a/b scan IL, which is based on WP Table 1 Release Criteria

	Release Criteria (dpm/100 cm ²)
Alpha	100
Beta	1000

- e. Perform systematic measurements (smears and statics) at 54 locations per SU
- f. WP states: "If radiological contamination is discovered during the survey, the Parcel F submarine pens and/or finger piers exceeding the release criteria listed in Table 1 will be re-surveyed as Class 1 areas. If no radiological contamination is discovered, no further investigation will be performed and the radiological survey data will be presented in reports and used to support future site decision for the Parcel F structures."

2. Review data collected to date in Finger Piers (SUs 4, 5, 6) (see excel spreadsheet)

- a. Finger Piers
 - i. Alpha/beta scan exceedances in all three SUs; no static exceedances.
 - ii. Recollected MH/grate exceedances in March – no exceedances (see excel spreadsheet summary).

3. Potential Paths Forward

- a. Prepare report with collected data.
 - i. Pro: Survey is complete, objectives have been met
 - ii. Con: Agencies may not accept alpha scans above the release criterion; however, we collected concrete samples and there is no contamination (when compared to soil release criteria). Five (5) concrete samples were collected.
- b. Collect more data (statics) to follow up on scans.
 - i. Pros: Go back to some agreed upon percentage of locations that exceeded the IL (or release criterion for alpha).
 - ii. Cons: What percentage and does this make sense? The highest static was 71 dpm/100cm². Given statistics and the high variability we've observed out in the field, it is likely we will find an exceedance not related to Navy historical activities.
- c. Scabble the surface of the pier, collect concrete samples.
 - i. Pros: We address all the scan areas exceeding the IL. We'll have analytical data, which will presumably show the alpha activity isn't from Navy historical activities (like at the sub pens).

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- ii. Cons: Expensive, what do we do with the concrete data – we have nothing to compare it to?
- d. Collect more concrete samples on a systematic basis.
 - i. Pros: We'll have analytical data, which will presumably show the alpha activity isn't from Navy historical activities (like at the sub pens).
 - ii. Cons: We won't go back to every scan area that exceeded the alpha release criterion. May not get regulatory approval. What do we do with the concrete data – we have nothing to compare it to?